



Town Of Clarkson Office of the Supervisor Pre-Disaster Mitigation Plan

Appendix B –16T

Hazard Specific Analysis: Dam Failure

Definition:

“Structural deterioration, either gradual or sudden, resulting in the facility’s inability to control impounded water as designed, resulting in danger to people and/or property in the potential inundation area.”¹

Description:

A credible event would be a failure in a dam outside a densely populated area, perhaps as a result of flooding.²

Overview of specific hazard locations and the extent of the hazard:

The Mt. Morris Dam is located on the Genesee River in Livingston County upstream of Monroe County and the Town Of Clarkson. Failure of this structure would have severe implications in our community. This hazard is ranked 16.

Failure could result in a water surge affecting a large area surrounding the downstream corridor of the Genesee River. An inundation map is appended. There are no Dams located within the Town Of Clarkson.

Previous occurrences of the hazard:

Probability of future occurrences and potential magnitude:

While it is difficult to predict the probability of future occurrences in general, there is an ever-present threat of vulnerability to terrorist attack. The worst case dam failure would be a sudden break on a clear day of the dam in the jurisdiction whose failure would imperil the largest number of people. Under these circumstances cascade effects would include the following:

¹ HAZNY

² HAZNY

- ?? Potential for injury and death
- ?? Property damage
- ?? Power failure
- ?? Water shortages
- ?? Sewer system failure
- ?? Hazardous materials release
- ?? Transportation accidents³

Maps of hazard areas:

Mt. Morris Dam inundation map is attached. Inundation maps for other “High Hazard” dams available at OEP are: the NYS Canal

Analysis of the impact on business, infrastructure & critical facilities:

There could be a significant impact overall due to the aforementioned factors in potential magnitude.

Specific information concerning estimated value (\$) of potential loss, damage to structures, casualties, etc:

No County data on loss associated with the Canal Break in Bushnells Basin.

Notes on data limitations: None

³ HAZNY